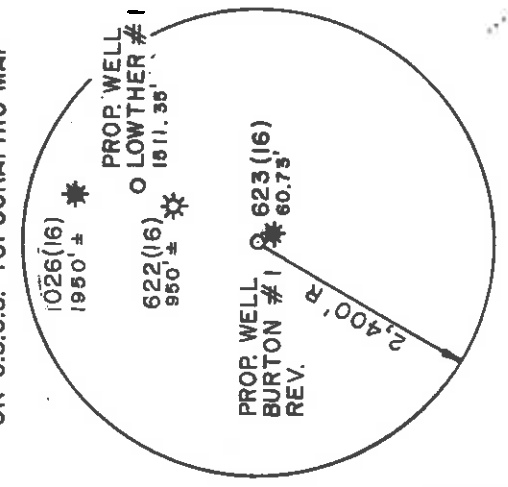


2,700'

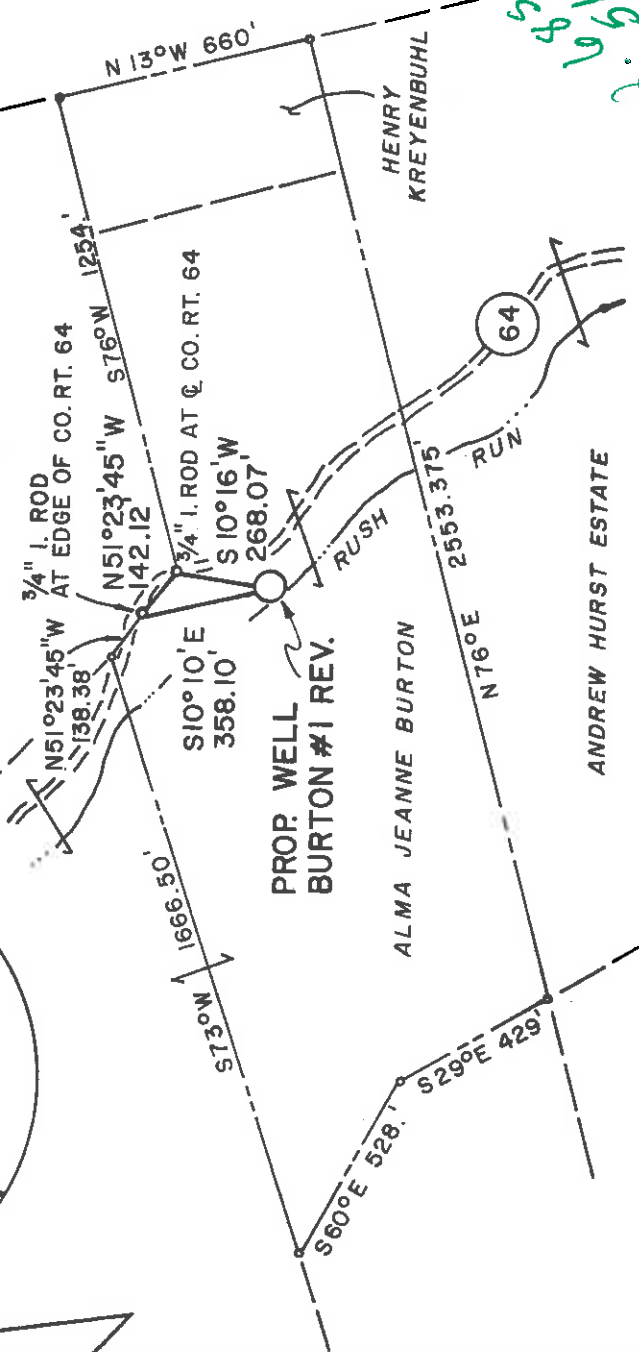
(+/-) DENOTES LOCATION OF WELL ON U.S.G.S. TOPOGRAPHIC MAP

LATITUDE 39° 10' 00"

LONGITUDE 80° 45' 00"



ROBERT L. TATE, SR. & MARY J. TATE



Handwritten notes: 490, 615, 60

MAGNETIC REFERENCE TIES

S 35°36' E 60.73' TO EXISTING WELL #47-017-623  
S 17°46' W 220.70' TO FENCE POST

7.5'

**MSES consultants, inc.**  
 FILE NO. MSES 90-957  
 DRAWN BY SARC/RRC/RLC/HDW  
 SCALE 1" = 500'  
 MIN. DEGREE OF ACCURACY 1/2500  
 PROVEN SOURCE OF ELEVATION:  
 INT. CO. RT. 64 & PRIVATE DRIVEWAY;  
 ELEV. 959.1 250' ± NE OF LOCATION

I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF MINES.  
 (SIGNED) *J. S. Bailey*  
 J. S. BAILEY  
 LICENSED  
 No. 652  
 STATE OF WEST VIRGINIA  
 LAND SURVEYOR



STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION

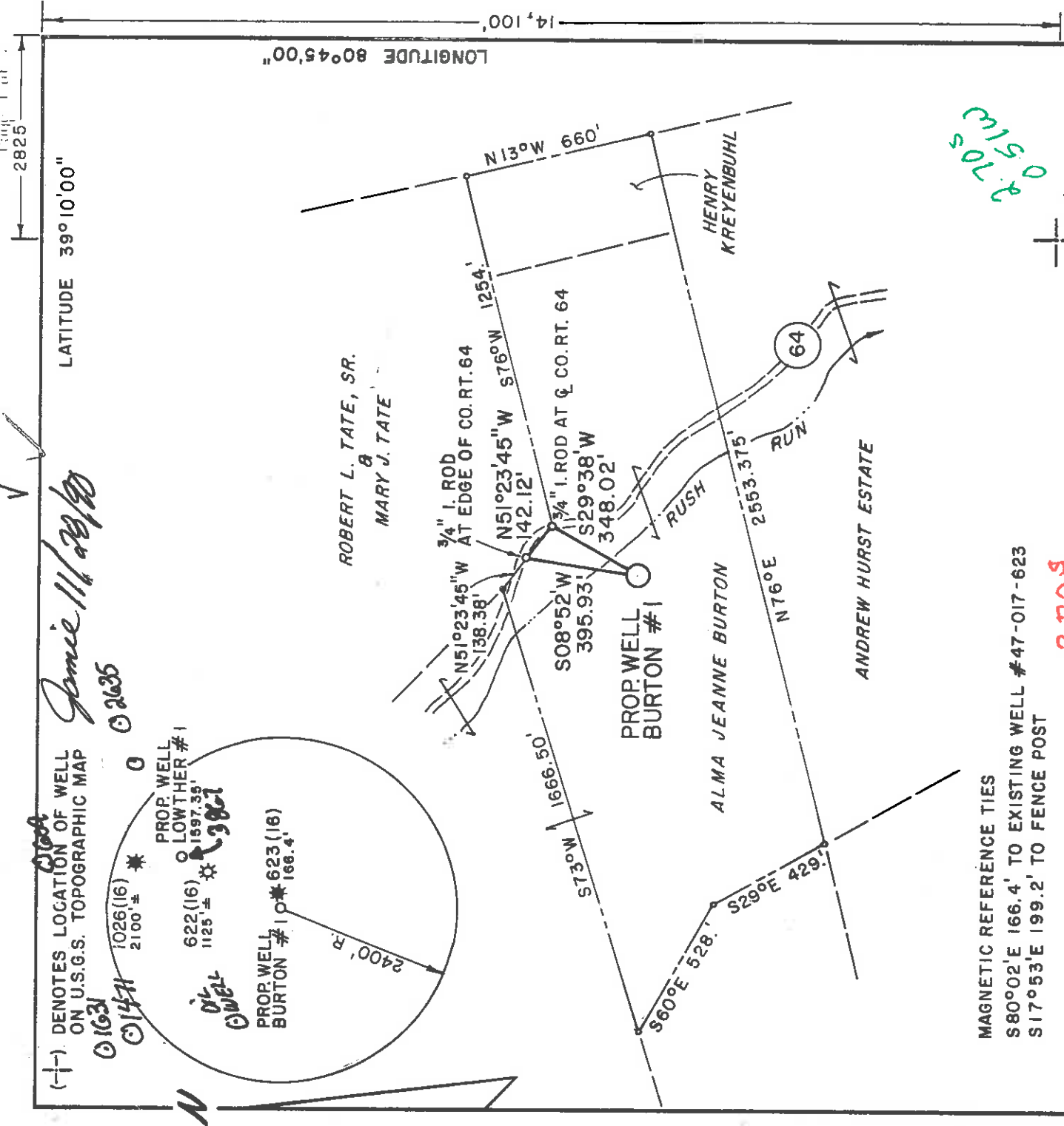
DATE JANUARY 22, 1991  
 OPERATOR'S WELL NO. BURTON #1 REV.  
 API WELL NO. 47-017 - 3866-Relined  
 STATE COUNTY PERMIT

WELL TYPE: OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL   
 IF "GAS", PRODUCTION  STORAGE  DEEP  SHALLOW   
 LOCATION: ELEVATION 957.4' WATERSHED RUSH RUN OF LEADING CREEK  
 DISTRICT COVE  COUNTY DODDRIDGE  
 QUADRANGLE OXFORD, WV 7.5' *Belmont, K, etc* NEAREST TOWN GROVE  
 SURFACE OWNER ALMA JEANNE BURTON ACREAGE 45  
 OIL & GAS ROYALTY OWNER MINNIE O. BURTON HEIRS ET AL LEASE ACREAGE 45

LEASE NO. \_\_\_\_\_  
 PROPOSED WORK: DRILL  CONVERT  DRILL DEEPER  REDRILL  FRACTURE OR STIMULATE   
 PLUG OFF OLD FORMATION  PERFORATE NEW FORMATION   
 OTHER PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_  
 PLUG AND ABANDON  CLEAN OUT AND REPLUG

TARGET FORMATION ALEXANDER ESTIMATED DEPTH 5400'  
 WELL OPERATOR INTERSTATE DRILLING, INC. DESIGNATED AGENT KENNETH L. POTE  
 ADDRESS ROUTE 3 BOX 89-V WESTON, WV 26452  
 ADDRESS ROUTE 3, BOX 89-V WESTON, WV 26452

FEB 8 1991



(+)- DENOTES LOCATION OF WELL ON U.S.G.S. TOPOGRAPHIC MAP

1026(16) 2100' ± \*  
 622(16) 1125' ± \*  
 PROP. WELL LOWTHER #1 1597.35' \*  
 3821

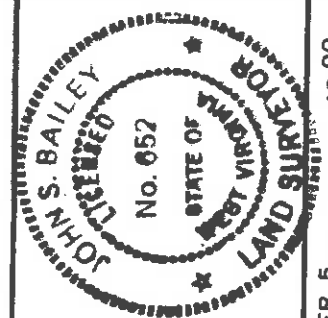
2400' R.  
 PROP. WELL BURTON #1 623(16) 166.4' \*

MAGNETIC REFERENCE TIES  
 S80°02'E 166.4' TO EXISTING WELL #47-017-623  
 S17°53'E 199.2' TO FENCE POST

**MSES consultants, inc.**  
 FILE NO. MSES 90-957  
 DRAWN BY SARC/RRC  
 SCALE 1" = 500'  
 MIN. DEGREE OF ACCURACY 1/2500  
 PROVEN SOURCE OF ELEVATION:  
 INT. CO. RT. 64 & PRIVATE DRIVEWAY;  
 ELEV. 959.1; 250' ± NE OF LOCATION

I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF MINES.

(SIGNED) *[Signature]*  
 R.P.E. L.L.S. 652



**STATE OF WEST VIRGINIA**  
 DEPARTMENT OF MINES  
**OIL AND GAS DIVISION**

DATE NOVEMBER 5, 1990  
 OPERATOR'S WELL NO. BURTON #1  
 API WELL NO. 47-017-3866  
 STATE COUNTY PERMIT

WELL TYPE: OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL   
 IF "GAS", PRODUCTION  STORAGE  DEEP  SHALLOW   
 LOCATION: ELEVATION 961.4' WATERSHED RUSH RUN OF LEADING CREEK  
 DISTRICT COVE 2 COUNTY DODDRIDGE  
 QUADRANGLE OXFORD, WV 7.5' NEAREST TOWN GROVE  
 SURFACE OWNER ALMA JEANNE BURTON ACREAGE 45  
 OIL & GAS ROYALTY OWNER MINNIE O. BURTON HEIRS ET AL LEASE ACREAGE 45

PROPOSED WORK: DRILL  CONVERT  DRILL DEEPER  REDRILL  FRACTURE OR STIMULATE   
 PLUG OFF OLD FORMATION  PERFORATE NEW FORMATION   
 OTHER PHYSICAL CHANGE IN WELL (SPECIFY)  
 PLUG AND ABANDON  CLEAN OUT AND REPLUG

TARGET FORMATION ALEXANDER ESTIMATED DEPTH 5400'  
 WELL OPERATOR INTERSTATE DRILLING, INC. DESIGNATED AGENT KENNETH L. POTE  
 ADDRESS ROUTE 3, BOX 89-V WESTON, WV 26452  
 ADDRESS DEC 10 1990 ROUTE 3, BOX 89-V WESTON, WV 26452

6-6 Conings (142)



REC'D  
MAR 21 1991  
DEPT. OF ENERGY

01-Feb-91  
API # 47- 17-03866

State of West Virginia  
DEPARTMENT OF ENERGY  
Division of Oil and Gas

Well Operator's Report of Well Work

Farm name: BURTON, ALMA J. Operator Well No.: BURTON 1

LOCATION: Elevation: 957.40 Quadrangle: OXFORD

District: COVE  
Latitude: 14050 Feet South of 39 Deg. 10Min. 0 Sec.  
Longitude 2700 Feet West of 80 Deg. 45 Min. 0 Sec.

Company: INTERSTATE DRILLING, INC.  
ROUTE 3, BOX 89-V  
WESTON, WV 26452-9620

Agent: KENNETH L. POTE

Inspector: MIKE UNDERWOOD  
Permit Issued: 02/04/91  
Well work Commenced: 02/05/91  
Well work Completed: 02/15/91

Verbal plugging  
Permission granted on: \_\_\_\_\_ Rig  
Rotary x Cable \_\_\_\_\_  
Total Depth (feet) 5302'  
Fresh water depths (ft) 13', 30', 145'

Salt water depths (ft) \_\_\_\_\_

Is coal being mined in area (Y/N)? N  
Coal Depths (ft): \_\_\_\_\_

OPEN FLOW DATA

Producing formation Elk  
Gas: Initial open flow \_\_\_\_\_ MCF/d Oil: \_\_\_\_\_ MCF/d Oil: \_\_\_\_\_ Pay zone depth (ft) 5043'-5224'  
Final open flow 432 MCF/d Final open flow \_\_\_\_\_ Bbl/d  
Time of open flow between initial and final tests \_\_\_\_\_ Hours  
Static rock Pressure 875 psig (surface pressure) after 4 Hours  
Fifth Sand, Warren & Speechley  
Belltown & Bradford  
Riley, Benson & Alexander  
Second producing formation \_\_\_\_\_ Pay zone depth (ft) 2829'-3597',  
Gas: Initial open flow \_\_\_\_\_ MCF/d Oil: \_\_\_\_\_ MCF/d Oil: \_\_\_\_\_ 2869'-4448',  
Final open flow \_\_\_\_\_ \* MCF/d Initial open flow \_\_\_\_\_ Bbl/d  
Time of open flow between initial and final tests \_\_\_\_\_ Hours  
Static rock Pressure \_\_\_\_\_ psig (surface pressure) after \_\_\_\_\_ Hours

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
16"	20'		
11-3/4"	30'		
8-5/8"	1022'	1022'	250 Sacks
4-1/2"		5277.20'	540 Sacks

\*Comingled with First Stage.

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

For: INTERSTATE DRILLING, INC.

By:   
Date: March 18, 1991

MAR 26 1991

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

1st Stage: Elk 5043'-5224' w/15 Holes; 6000# 80/100, 30000# 20/40; 110 Bbls/SL Fluid; 464,000 SCF Nitrogen

2nd Stage: Riley, Benson and Alexander 4683'-4983' w/17 Holes; 6000# 80/100, 35000# 20/40; 119 Bbls/SL Fluid; 487,000 SCF Nitrogen

3rd Stage: Balltown and Bradford 3992-4448' w/17 Holes; 8700# 80/100, 34000# 20/40; 160 Bbls/SL Fluid; 621,000 SCF Nitrogen

4th Stage: Fifth Sand, Warren and Speechley 2929'-3597' w/19 Holes; 6000# 80/100, 35000# 20/40; 144 Bbls/SL Fluid; 423,000 SCF Nitrogen

GEOLOGICAL RECORD OF ALL FORMATIONS

Fill	Gray	Hard	0'	13'	1" Stream H2O @ 13'
Sand	Gray	Hard	13'	107'	1/4" Stream H2O @ 30'
RRShale	Red/Gray	Med.	107'	132'	
Sand	Gray	Hard	132'	143'	
RRShale	Red/Gray	Med.	143'	149'	1/2" Stream H2O @ 145'
Sand	Gray	Hard	149'	175'	
RRShale	Red/Gray	Med.	175'	188'	
Sand	Gray	Hard	188'	204'	
Sand,ShaleRR	Gray/Red	Hard	204'	369'	
Sand	Gray	Hard	369'	438'	
SandShale	Gray	Med.	438'	647'	
Sand	Gray	Hard	647'	673'	
Sand,ShaleRR	Gray/Red	Hard	673'	1030'	Hole Damp @ 1100'
SandShale	Gray	Med.	1030'	1100'	
Sand	Gray	Med.	1100'	1145'	
SandShale	Gray	Med.	1145'	1431'	
Sand	Gray	Hard	1431'	1456'	
SandShale	Gray	Med.	1456'	1861'	
Little Lime	Lt. Gray	Hard	1861'	1870'	
Shale	Gray	Med.	1870'	1894'	
Big Lime	Gray	Hard	1894'	1929'	
Shale	Gray	Med.	1929'	1934'	
Big Injua	Gray	Hard	1934'	2081'	Oil Show @ 1990', Hole Damp Soap Pump on Hole @ 2038'
SandShale	Gray	Med.	2081'	2179'	
Sand	Gray	Hard	2179'	2294'	Hole Dry @ 2214', Dusting.
SandShale	Gray	Med.	2294'	2610'	
Sand	Gray	Med.	2610'	2615'	
Shale	Gray	Med.	2615'	4120'	Gas Ck. @ 2713' - No Show
					Gas Ck. @ 3392' - No Show
					Gas Ck. @ 3548' - No Show
Sand	Gray	Hard	4120'	4130'	Gas Ck. @ 4133' - No Show
SandShale	Gray	Med.	4130'	4970'	Gas Ck. @ 4869' - No Show
Sand	Brown	Med.	4970'	4980'	
SandShale	Gray	Med.	4980'	5150'	Gas Ck. @ 5024' - No Show
Sand	Brown	Med.	5150'	5160'	
SandShale	Gray	Med.	5160'	5302'	Gas Ck. @ 5302' - No Show
Total Depth			5302'		

11588

611-3866  
Issued 12/05/90  
Expired 12/05/92  
Page 1 of 7

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS  
WELL WORK PERMIT APPLICATION

- 1) Well Operator: Interstate Drilling, Inc. 23950 (2) 525
- 2) Operator's Well Number: 411 Burton #1
- 3) Elevation: 961.4'
- 4) Well type: (a) Oil  or Gas
- (b) If Gas: Production  Underground Storage   
Deep  Shallow
- 5) Proposed Target Formation(s): Alexander 439
- 6) Proposed Total Depth: 5500 feet
- 7) Approximate fresh water strata depths: 30'
- 8) Approximate salt water depths: 640'
- 9) Approximate coal seam depths: No Coal
- 10) Does land contain coal seams tributary to active mine? Yes  No
- 11) Proposed Well Work: Drill and Stimulate New Well
- 12)

RECEIVED  
Division of Energy  
NOV 19 90  
Permitting  
Oil and Gas Section

CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT
	Size	Grade	Weight per ft.	For drilling	Left in well	
Conductor	11-3/4"	H-40	42#	20'	0'	
Fresh Water						
Coal						
Intermediate	8-5/8"	K-55	20#	1000'	1000'	Cement to Surface
Production	4-1/2"	J-55	10.5#		5400'	± 450 Sks.
Tubing						30CSPIB N.1
Liners						

PACKERS : Kind \_\_\_\_\_  
Sizes \_\_\_\_\_  
Depths set \_\_\_\_\_

8673  
8634

FOR DIVISION OF OIL AND GAS USE ONLY

Fee(s) paid  Well Work Permit  Reclamation Fund  WPCP

Plat  WW-9  WW-2B  Bond  Surety Blanket  Agent

115 X 4

1) Date: November 16, 1990  
2) Operator's well number 3866  
3) API Well No: 47 - 017 - 3866  
State - County -

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS

Permit  
Division of Energy  
NOV 19 90  
Oil and Gas Section  
Permitting

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

4) Surface Owner(s) to be served:

(a) Name Alma J. Burton  
Address Rt. 1, Box 118  
New Milton, WV 26411

(b) Name \_\_\_\_\_  
Address \_\_\_\_\_

(c) Name \_\_\_\_\_  
Address \_\_\_\_\_

(d) Coal Owner(s) with Declaration  
Name Minnie O. Burton Heirs % Pearl Sisk  
Address P.O. Box 410  
Jane Lew, WV 26378

Name \_\_\_\_\_  
Address \_\_\_\_\_

(c) Coal Lessee with Declaration  
Name \_\_\_\_\_  
Address \_\_\_\_\_

5) (a) Coal Operator:  
Name \_\_\_\_\_  
Address \_\_\_\_\_

6) Inspector Mike Underwood  
Address Rt. 2, Box 135  
Salem, WV 26426  
Telephone (304) - 782-1043 (465-1911)

TO THE PERSON(S) NAMED ABOVE TAKE NOTICE THAT:

Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil and gas OR

Included is the information required by Chapter 22B, Article 1, Section 8(d) of the Code of West Virginia (see page 2)

I certify that as required under Chapter 22B of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through \_\_\_\_\_ on the above named parties, by: \_\_\_\_\_  
Personal Service (Affidavit attached)  
 Certified Mail (Postmarked postal receipt attached)  
\_\_\_\_\_ Publication (Notice of Publication attached)

I have read and understand Chapter 22B and 38 CSR 11-18, and I agree to the terms and conditions of any permit issued under this application. I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete.

I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

BY: [Signature] Well Operator Interstate Drilling, Inc.  
Its: [Signature] Manager of Operations  
Address Rt. 3, Box 89-V  
Weston, WV 26452

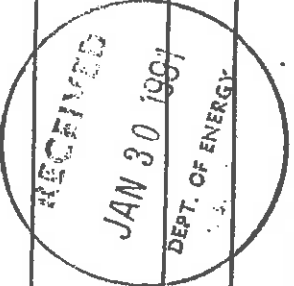
Subscribed and sworn before me this 16th day of December, 1990

My commission expires October 31, 1994 \_\_\_\_\_ Notary Public

017-3866-Rev  
 Dated 02/04/91  
 Expires 02/04/93  
 Page 3 of 7

STATE OF WEST VIRGINIA  
 DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS  
 WELL WORK PERMIT APPLICATION

- 1) Well Operator: Interstate Drilling, Inc. 23950 (2) S25
- 2) Operator's Well Number: Burton #1 - Rev. 3) Elevation: 957.4'
- 4) Well type: (a) Oil \_\_\_ / or Gas x /  
 (b) If Gas: Production x / Underground Storage \_\_\_  
 Deep \_\_\_ / Shallow x /
- 5) Proposed Target Formation(s): Alexander 430
- 6) Proposed Total Depth: 5400 feet
- 7) Approximate fresh water strata depths: 30'
- 8) Approximate salt water depths: 640'
- 9) Approximate coal seam depths: No Coal
- 10) Does land contain coal seams tributary to active mine? Yes \_\_\_ / No x /
- 11) Proposed Well Work: Drill and Stimulate New Well
- 12)



CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT
	Size	Grade	Weight per ft.	For drilling	Left in well	
Conductor	11-3/4"	H-40	42#	20'	0'	
Fresh Water						
Coal						
Intermediate	8-5/8"	K-55	20#	1000'	1000'	Cement to Surface
Production	4-1/2"	J-55	10.5#		5400'	± 450 Sacks
Tubing						
Liners						

PACKERS : Kind  
 Sizes  
 Depths set

For Division of Oil and Gas Use Only

Fee(s) paid: \_\_\_ Well Work Permit \_\_\_ Reclamation Fund \_\_\_ WPCP



1) Date: January 24, 1991  
2) Operator's well number  
Burton #1 - Rev.  
3) API Well No: 47 - 017 - 3866 - Rev  
State - County - Permit

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

- 4) Surface Owner(s) to be served:
- (a) Name Alma J. Burton  
Address Rt. 1, Box 118  
New Milton, WV 26411
- (b) Name \_\_\_\_\_  
Address \_\_\_\_\_
- (c) Name \_\_\_\_\_  
Address \_\_\_\_\_
- 5) (a) Coal Operator:  
Name \_\_\_\_\_  
Address \_\_\_\_\_
- (b) Coal Owner(s) with Declaration  
Name Minnie O. Burton Heins % Pearl Sisk  
Address P.O. Box 410  
Jane Lew, WV 26378  
Name \_\_\_\_\_  
Address \_\_\_\_\_
- (c) Coal Lessee with Declaration  
Name \_\_\_\_\_  
Address \_\_\_\_\_
- 6) Inspector Mike Underwood  
Address Rt. 2, Box 135  
Salem, WV 26426  
Telephone (304) - 782-1043 (465-1911)

TO THE PERSON(S) NAMED ABOVE TAKE NOTICE THAT:

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 Certified Mail (Postmarked postal receipt attached)  
\_\_\_\_\_ Publication (Notice of Publication attached)

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I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete.

I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

By: Ernest R. Sisk Interstate Drilling, Inc.  
Its: Manager of Operations  
Address Rt. 3, Box 89-V  
Weston, WV 26452  
Telephone 304-269-6441

Subscribed and sworn before me this 24th day of January, 1991

My commission expires October 31, 1994. Harold Wiley Notary Public